

OzCrop Terbuthylazine 875 WG Herbicide OzCrop Pty Ltd

Chemwatch: **5340-78** Version No: **3.1.1.1** Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: 01/11/2019 Print Date: 16/09/2020 S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	OzCrop Terbuthylazine 875 WG Herbicide	
Synonyms	PVMA number: 87471	
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains terbuthylazine)	
Other means of identification	Not Available	

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Herbicide.

Details of the supplier of the safety data sheet

Registered company name	OzCrop Pty Ltd	
Address	13/25 Solent Circuit Norwest NSW 2153 Australia	
Telephone	2) 8123 0170	
Fax	02) 8123 0171	
Website	http://www.ozcrop.com.au	
Email	orders@ozcrop.com.au	

Emergency telephone number

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Association / Organisation	In Transport Emergency DIAL 000	
Emergency telephone numbers	1800 033 111 (24 hours - Australia wide)	
Other emergency telephone numbers	Not Available	

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	S6
Classification ^[1]	Acute Toxicity (Oral) Category 4, Chronic Aquatic Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)		
Signal word	Warning	
Hazard statement(s)		
H302	Harmful if swallowed.	
H411	Toxic to aquatic life with long lasting effects.	

Precautionary statement(s) Prevention

P264	Wash all exposed external body areas thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	

Precautionary statement(s) Response

P391	Collect spillage.
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OzCrop Terbuthylazine 875 WG Herbicide

P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		
P330	Rinse mouth.		
Precautionary statement(s) Storage Not Applicable			
Precautionary statement(s) Disposal			
P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.		

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
5915-41-3	>60	terbuthylazine
Not Available	balance	Ingredients determined not to be hazardous

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For triazines:

Clinical effects:

Nausea, vomiting, diarrhoea, abdominal pain and a burning sensation in the mouth. However, due to the lack of clinical data serious effects cannot be excluded from large dose deliberate ingestions

In the case of products with organic solvents, aspiration can develop. Ataxia, anorexia, dyspnoea and muscle spasms have all been reported in animal studies but have not been seen in humans.

Management principles:

Ingestion:

- In most cases there is probably no need for anything other than oral fluids and reassurance. If a very large amount has been ingested then consider: adult: gastric lavage (with a cuffed endotracheal tube if an organic solvent is involved) followed by 50 g activated charcoal, child: 1 g/kg activated charcoal.
- Do not induce vomiting if product contains an organic solvent.
- Observe the patient if a large dose has been ingested.

Symptomatic and supportive care.

Inhalation:

- Remove to fresh air. Give oxygen if necessary.
- Bronchodilators may be given if indicated. Otherwise treat for the particular solvent involved.

Skin:

▶ Wash with copious amounts of water and prevent drying/cracking (due to solvent) with an emollient

- Eye:
- Irrigate for 15 to 20 minutes with running water or saline.

Refer to an ophthalmologist.

IPCS InChem Series

Continued...

OzCrop Terbuthylazine 875 WG Herbicide

Extinguishing media

- Water spray or fog.
- ▶ Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. 		
Fire/Explosion Hazard	 Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions). Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard, accumulations of fine dust (420 micron or less) may burn rapidly and flercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion. In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is of the values of the inherent difficulty of avoors/mists, gnitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture will be lower than the individual LELs for the vapors/mists or dusts. A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosior forc		
HAZCHEM	2Z		

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

includes and indicinal for containment and occaring up		
Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labelled container for waste disposal. Environmental hazard - contain spillage. 	
Major Spills	Environmental hazard - contain spillage. Moderate hazard.	

Alert Emergency Services and tell them location and nature of hazard.
Control personal contact by wearing protective clothing.
Prevent, by any means available, spillage from entering drains or water courses.
Recover product wherever possible.
• IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for
disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.
ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.
If contamination of drains or waterways occurs, advise Emergency Services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

recautions for safe handling Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT allow material to contact humans, exposed food or food utensits. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use go do occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure soft particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions) Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Use continuous suction at points of dust generation to capture and minimise the accumulation of fusts. Particular attention should be given to overhead and hidden horizontal surfaces to minimise the probability of a "secondary" explosion. According to NFPA Standard 654, dust layers 1/32 in (0.8 mm) thick can be sufficient to warrant immediate cleaning of the area. Do not use air hoses for cleaning. Minimise dry sweeping to avoid generation of dust clouds. Vacuum dust-accum
	 bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. For major quantities: Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground
	 Consider solage in bundled areas - ensure storage areas are isolated from sources or community water (including stormwater, ground water, lakes and streams). Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation wit local authorities.

Conditions for safe storage, including any incompatibilities

Suitable container	 Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Contains a six-membered heterocyclic ring. Six-membered heterocycles can be described as pideficient. Substitution by electronegative groups or additional nitrogen atoms in the ring significantly increase the pi-deficiency. These effects also decrease the basicity. Electrophilic aromatic substitution is more difficult while nucleophilic aromatic substitution is facilitated. Although triazines are aromatic compounds, their resonance energy is much lower than in benzene. Electrophilic aromatic substitution is difficult - nucleophilic aromatic substitution is easier. The 1,2,4-triazines can react with electron-rich dienophiles in an inverse electron demand Diels-Alder reaction. This forms a bicyclic intermediate which normally then extrudes a molecule of nitrogen gas to form an aromatic ring again. In this way the 1,2,4-triazines can be reacted with alkynes to form pyridine rings. Triazine-based ligands have been used to bind three dinuclear arene ruthenium (or osmium) compounds to form metallaprisms. Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

lot Available					
Emergency Limits					
Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3	
OzCrop Terbuthylazine 875 WG Herbicide	Not Available	Not Available	Not Available	Not Available	
Ingredient	Original IDLH		Revised IDLH		
terbuthylazine	Not Available		Not Available		
Occupational Exposure Banding			· · · · · · · · · · · · · · · · · · ·		
Ingredient	Occupational Exposure Ban	d Rating	Occupational Exposure Band Limi	+	
terbuthylazine	E	a Natilig		≤ 0.01 mg/m ³	
Notes:	E Occupational exposure banding is a process of assigning chemicals into adverse health outcomes associated with exposure. The output of this p range of exposure concentrations that are expected to protect worker he		emicals into specific categories or bands based on a put of this process is an occupational exposure band		
xposure controls					
Appropriate engineering controls	 "adds" and "removes" air in the ventilation system must match Employers may need to use m Local exhaust ventilation is proportion will be powdere If in spite of local exhaust a Such protection might consist (a): particle dust respirators, if (b): filter respirators with absort (c): fresh-air hoods or masks. Air contaminants generated in circulating air required to effect Type of Contaminant: direct spray, spray painting ir generation into zone of rapid grinding, abrasive blasting, tu of very high rapid air motion) Within each range the appropriation of the spray of the s	e work environment. Ventilation the particular process and che ultiple types of controls to prev s required where solids are ha d by mutual friction. an adverse concentration of th of: necessary, combined with an a ption cartridge or canister of th the workplace possess varying tively remove the contaminant n shallow booths, drum filling, I air motion) umbling, high speed wheel gen	ent employee overexposure. Indied as powders or crystals; even when particulates e substance in air could occur, respiratory protection ubsorption cartridge; e right type; I "escape" velocities which, in turn, determine the "c exonveyer loading, crusher dusts, gas discharge (action werated dusts (released at high initial velocity into zo	apture velocities" of fresh Air Speed: ve 1-2.5 m/s (200-500 f/min.)	
	Lower end of the range Upper end of the range				
	1: Room air currents minima	•	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of high toxicity				
	3: Intermittent, low production	n.	3: High production, heavy use		
	4: Large hood or large air mass in motion 4: Small hood-local control only Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.				
Personal protection					
Eye and face protection	 Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 				
Skin protection	See Hand protection below				
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be				

	 washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and durability of glove type is dependent on usage. Important factors in the selection of gloves include: devetrity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged of requently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. As defined in ASTM F-739-80 min spapification, gloves are rated as: Excellent When breakthrough time > 20 min Fair when breakthrough time > 20 min Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation officiency of the glove will be dependent on the exact composition of the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the glove for the task. Note: Depending on the acitivity being co
	 nitrile rubber. butyl rubber. fluorocaoutchouc. polyvinyl chloride. Clause should be superiod for upon and/or degradation constantly.
Body protection	Gloves should be examined for wear and/ or degradation constantly.
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

• Use approved positive flow mask if significant quantities of dust becomes airborne.

Try to avoid creating dust conditions.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	ce Off-white to brown granules with mild odour; disperses in water.		
Physical state	Divided Solid	Relative density (Water = 1)	Not Available

Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	7.5-9.5
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7	
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. 	
Possibility of hazardous reactions	See section 7	
Conditions to avoid	See section 7	
Incompatible materials	See section 7	
Hazardous decomposition products	See section 5	

SECTION 11 Toxicological information

Information on toxicological effects

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Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.		
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Triazine derivatives have been shown to cause structural damage to the liver in animal studies.		
Skin Contact	The material is not thought to be a skin irritant (as classified by EC Directives using animal models). Abrasive damage however, may result from prolonged exposures. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.		
Chronic	There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Epidemiological studies show that long-term exposure to triazine herbicides increases the risk of cancer of the ovary and the breast. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung.		
OzCrop Terbuthylazine 875	τοχιςιτγ	IRRITATION	
WG Herbicide	Not Available Not Available		
	тохісіту	IRRITATION	
	dermal (rat) LD50: >3000 mg/kg ^[2]	Skin (rabbit): non-irritating *	
terbuthylazine	Inhalation (rat) LC50: >3.51 mg/l/4h ^[2]		
	Inhalation (rat) LC50: >5.3 mg/l/4h* ^[2]		
	Oral (rat) LD50: 1590-2000 mg/kg ^[2]		
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances 		

TERBUTHYLAZINE	Oral (rat) LD50: 1590->2000 mg/kg * Eye (rabbit): non-i years) for mice 16.8 mg/kg Toxicity Class WHO II; EPA [* The Pesticides Manual, Incorporating The Agroch Council]	III ADI: 0.002 mg/kg/day NOEL: 5 mg	/kg/day
Acute Toxicity	✓	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	X
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		•	available or does not fill the criteria for classification to make classification

SECTION 12 Ecological information

O-Crea Techuthula-ine 075	Endpoint	Test Duration (hr)	Species	Value	Source
OzCrop Terbuthylazine 875 WG Herbicide	Not Available	Not Available	Not Available	Not Available	Not Available
terbuthylazine	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from	n 1. IUCLID Toxicity Data 2. Europe ECHA	Registered Substances - Ecotoxicological I	nformation - Aquatic Toxicity 3.	EPIWIN Su

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
terbuthylazine	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
terbuthylazine	LOW (LogKOW = 2.8694)

Mobility in soil

Ingredient	Mobility
terbuthylazine	LOW (KOC = 1858)

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority.

SECTION 14 Transport information

Labels Required



Marine Pollutant

2Z

HAZCHEM

Land transport (ADG)

UN number	3077		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains terbuthylazine)		
Transport hazard class(es)	Class 9 Subrisk Not Applicable		
Packing group	II		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions 274 331 335 375 AU01 Limited quantity 5 kg		

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

(a) packagings;

(b) IBCs; or

(c) any other receptacle not exceeding 500 kg(L).

- Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

Air transport (ICAO-IATA / DGR)

IVN numbe3077IVN proper shipping nameFixinomentally hazardzeski (no.s.* (contains = // contains = // con		4			
ICAO/IATA Class 9 ICAO / IATA Subrisk Not Applicable ERG Code 9L Packing group III Environmental hazard Environmentally hazardous Special provisions A97 A158 A179 A197 Cargo Only Packing Instructions 956 Cargo Only Maximum Qty / Pack 400 kg Passenger and Cargo Packing Instructions 956 Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Maximum Qty / Pack 400 kg	UN number	3077			
ICAO / IATA Subrisk Not Applicable ERG Code 9L Packing group III Environmental hazard Environmentally hazard Special provisions Special provisions Cargo Only Packing Instructions 956 Cargo Only Maximum \U / Pack 400 kg Passenger and Cargo Packing Instructions 956 Passenger and Cargo \u00ex Limited Quantity Pack 400 kg Passenger and Cargo \u00ex Limited Quantity Packing Instructions 956	UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. * (contains terbuthylazine)			
ERG Code 9L Packing group III Environmental hazard Environmentally hazardoux Special provisions A97 A158 A179 A197 Cargo Only Packing Instructions 956 Cargo Only Maximum Qty / Pack 400 kg Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Instructions 956 Passenger and Cargo Limited Quantity Packing Instructions Y956		ICAO/IATA Class	9		
Packing group III Environmental hazard Environmentally hazardous Special provisions A97 A158 A179 A197 Cargo Only Packing Instructions 956 Cargo Only Maximum Qty / Pack 400 kg Passenger and Cargo Packing Instructions 956 Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Limited Quantity Packing Instructions Y956	Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
Environmental hazard Environmentally hazardous Special provisions A97 A158 A179 A197 Cargo Only Packing Instructions 956 Cargo Only Maximum Qty / Pack 400 kg Passenger and Cargo Packing Instructions 956 Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Limited Quantity Packing Instructions Y956		ERG Code	ERG Code 9L		
Special provisions A97 A158 A179 A197 Cargo Only Packing Instructions 956 Cargo Only Maximum Qty / Pack 400 kg Passenger and Cargo Packing Instructions 956 Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Limited Quantity Packing Instructions Y956	Packing group	III			
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Special precautions for user Cargo Only Maximum Qty / Pack 400 kg Passenger and Cargo Packing Instructions 956 Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Limited Quantity Packing Instructions Y956		Special provisions		A97 A158 A179 A197	
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Passenger and Cargo Maximum Qty / Pack 400 kg Passenger and Cargo Limited Quantity Packing Instructions Y956		Cargo Only Maximum Qty / Pack		400 kg	
Passenger and Cargo Limited Quantity Packing Instructions Y956	Special precautions for user	Passenger and Cargo Packing Instructions		956	
		Passenger and Cargo Maximum Qty / Pack		400 kg	
Passenger and Cargo Limited Maximum Qty / Pack 30 kg G		Passenger and Cargo	Limited Quantity Packing Instructions	Y956	
		Passenger and Cargo Limited Maximum Qty / Pack		30 kg G	

Sea transport (IMDG-Code / GGVSee)

· ·	-			
UN number	3077			
UN proper shipping name	ENVIRONMENTALLY	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains terbuthylazine)		
Transport hazard class(es)	IMDG Class S IMDG Subrisk N	9 Not Applicable		
Packing group	III			
Environmental hazard	Marine Pollutant			
Special precautions for user	EMS Number Special provisions Limited Quantities			

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

terbuthylazine is found on the following regulatory lists

Australia Chemicals with non-industrial uses removed from the Australian Inventory of Chemical Substances (old Inventory) Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

National Inventory Status

National Inventory	Status
Australia - AIIC	No (terbuthylazine)
Australia Non-Industrial Use	Yes
Canada - DSL	No (terbuthylazine)
Canada - NDSL	Yes
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (terbuthylazine)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	No (terbuthylazine)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	01/11/2019
Initial Date	08/01/2019

SDS Version Summary

Version	Issue Date	Sections Updated
3.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit₀ IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LODE Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors

BEI: Biological Exposure Index

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